

RAW SEQUENCE LISTING

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Application Serial Number: 10/525,621
Source: PCT
Date Processed by STIC: 3-8-05

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PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/525,621

DATE: 03/08/2005
TIME: 10:15:36

Input Set : A:\082368-002400US.TXT
Output Set: N:\CRF4\03082005\J525621.raw

4 <110> APPLICANT: Kiyosue, Yuko
5 Sasaki, Hiroyuki
6 Tsukita, Shoichiro
7 Eisai Co., Ltd.
9 <120> TITLE OF INVENTION: CULTURED XENOPUS LAEVIS CELL LINES
10 EXPRESSING MUTANT ADENOMATOUS POLYPOSIS COLI GENE
13 <130> FILE REFERENCE: 082368-002400US
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/525,621
C--> 15 <141> CURRENT FILING DATE: 2005-02-22
15 <150> PRIOR APPLICATION NUMBER: PCT/JP03/10434
16 <151> PRIOR FILING DATE: 2003-08-19
18 <150> PRIOR APPLICATION NUMBER: JP 2002-241487
19 <151> PRIOR FILING DATE: 2002-08-22
21 <160> NUMBER OF SEQ ID NOS: 9
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 2829
27 <212> TYPE: PRT
28 <213> ORGANISM: Xenopus laevis
30 <400> SEQUENCE: 1
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32 1 5 10 15
33 Thr Met Glu Asn Thr Asn Leu Arg Gln Glu Leu Glu Asp Asn Ser Asn
34 20 25 30
35 His Leu Thr Lys Leu Glu Thr Glu Ala Thr Asn Met Lys Glu Val Leu
36 35 40 45
37 Lys Gln Leu Gln Gly Ser Ile Glu Asp Glu Ala Met Ala Ser Ser Gly
38 50 55 60
39 Pro Ile Asp Leu Leu Glu Arg Phe Lys Asp Leu Asn Leu Asp Ser Ser
40 65 70 75 80
41 Asn Ile Pro Ala Gly Lys Ala Arg Pro Lys Met Ser Met Arg Ser Tyr
42 85 90 95
43 Gly Ser Arg Glu Gly Ser Leu Ser Gly His Ser Gly Glu Cys Ser Pro
44 100 105 110
45 Val Pro Val Gly Ser Phe Gln Arg Arg Gly Leu Leu Asn Gly Ser Arg
46 115 120 125
47 Glu Ser Ala Gly Tyr Met Glu Glu Leu Glu Lys Glu Arg Leu Leu Leu
48 130 135 140
49 Ile Ala Glu His Glu Lys Glu Glu Lys Glu Lys Arg Trp Tyr Tyr Ala
50 145 150 155 160
51 Gln Leu Gln Asn Leu Thr Lys Arg Ile Asp Ser Leu Pro Leu Thr Glu
52 165 170 175
53 Asn Phe Ser Met Gln Thr Asp Met Thr Arg Arg Gln Leu Glu Tyr Glu

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54	180	185	190
55	Ala Arg Gln Ile Arg Ala Ala Met	Glu Glu Gln Leu Gly	Thr Cys Gln
56	195	200	205
57	Asp Met Glu Lys Arg Val Gln Thr Arg Val Gly	Lys Ile His Gln Ile	
58	210	215	220
59	Glu Glu Glu Ile Leu Arg Ile Arg Gln	Leu Leu Gln Ser Gln Val Ala	
60	225	230	235
61	Glu Ala Ala Glu Arg Thr Pro Gln Ser Lys	His Asp Ala Gly Ser Arg	
62	245	250	255
63	Asp Ala Glu Lys Leu Pro Asp Gly Gln	Gly Thr Ser Glu Ile Thr Ala	
64	260	265	270
65	Ser Gly Asn Val Gly Ser Gly Gln	Gly Ser Ser Ser Arg Ala Asp His	
66	275	280	285
67	Asp Thr Thr Ser Val Met Ser Ser Asn Ser	Thr Tyr Ser Val Pro Arg	
68	290	295	300
69	Arg Leu Thr Ser His Leu Gly Thr Lys Val	Glu Met Val Tyr Ser Leu	
70	305	310	315
71	Leu Ser Met Leu Gly Thr His Asp Lys Asp	Asp Met Ser Arg Thr Leu	
72	325	330	335
73	Leu Ala Met Ser Ser Ser Gln Asp Ser Cys	Ile Ala Met Arg Gln Ser	
74	340	345	350
75	Gly Cys Leu Pro Leu Leu Ile Gln	Leu Leu His Gly Asn Asp Lys Asp	
76	355	360	365
77	Ser Val Leu Leu Gly Asn Ser Arg Gly Ser	Lys Glu Ala Arg Ala Ser	
78	370	375	380
79	Gly Ser Ala Ala Leu Asp Asn Ile Ile His	Ser Gln Pro Asp Asp Lys	
80	385	390	395
81	Arg Gly Arg Arg Glu Ile Arg Val Leu His	Leu Leu Glu Gln Ile Arg	
82	405	410	415
83	Ala Tyr Cys Glu Thr Cys Trp Glu Trp	Gln Glu Ala His Glu Gln Gly	
84	420	425	430
85	Met Asp Gln Asp Lys Asn Pro Met Pro	Ala Pro Val Asp His Gln Ile	
86	435	440	445
87	Cys Pro Ala Val Cys Val Leu Met Lys Leu	Ser Phe Asp Glu Glu His	
88	450	455	460
89	Arg His Ala Met Asn Glu Leu Gly Gly	Leu Gln Ala Ile Ala Glu Leu	
90	465	470	475
91	Leu Gln Val Asp Cys Glu Met Tyr Gly	Leu Ile Asn Asp His Tyr Ser	
92	485	490	495
93	Val Thr Leu Arg Arg Tyr Ala Gly Met	Ala Leu Thr Asn Leu Thr Phe	
94	500	505	510
95	Gly Asp Val Ala Asn Lys Ala Thr Leu	Cys Ser Met Lys Ser Cys Met	
96	515	520	525
97	Arg Ala Leu Val Ala Gln Leu Lys Ser	Glu Ser Glu Asp Leu Gln Gln	
98	530	535	540
99	Val Ile Ala Ser Val Leu Arg Asn Leu Ser	Trp Arg Ala Asp Val Asn	
100	545	550	555
101	Ser Lys Lys Thr Leu Arg Glu Val Gly	Ser Val Lys Ala Leu Met Glu	
102	565	570	575

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103 Cys Ala Leu Asp Val Lys Glu Ser Thr Leu Lys Ser Val Leu Ser
 104 580 585 590
 105 Ala Leu Trp Asn Leu Ser Ala His Cys Thr Glu Asn Lys Ala Asp Ile
 106 595 600 605
 107 Cys Ser Val Asp Gly Ala Leu Ala Phe Leu Val Ser Thr Leu Thr Tyr
 108 610 615 620
 109 Arg Ser Gln Thr Asn Thr Leu Ala Ile Ile Glu Ser Gly Gly Ile
 110 625 630 635 640
 111 Leu Arg Asn Val Ser Ser Leu Ile Ala Thr Asn Glu Asp His Arg Gln
 112 645 650 655
 113 Ile Leu Arg Glu Asn Asn Cys Leu Gln Thr Leu Leu Gln His Leu Lys
 114 660 665 670
 115 Ser His Ser Leu Thr Ile Val Ser Asn Ala Cys Gly Thr Leu Trp Asn
 116 675 680 685
 117 Leu Ser Ala Arg Asn Ala Lys Asp Gln Glu Gly Leu Trp Asp Met Gly
 118 690 695 700
 119 Ala Val Ser Met Leu Lys Asn Leu Ile His Ser Lys His Lys Met Ile
 120 705 710 715 720
 121 Ala Met Gly Ser Ala Ala Ala Leu Arg Asn Leu Met Ala Asn Arg Pro
 122 725 730 735
 123 Ala Lys Tyr Lys Asp Ala Asn Ile Met Ser Pro Gly Ser Ser Val Pro
 124 740 745 750
 125 Ser Leu His Val Arg Lys Gln Lys Ala Leu Glu Ala Glu Leu Asp Ala
 126 755 760 765
 127 Gln His Leu Ser Glu Thr Phe Asp Asn Ile Asp Asn Leu Ser Pro Lys
 128 770 775 780
 129 Thr Thr His Arg Asn Lys Gln Arg His Lys Gln Asn Leu Cys Ser Glu
 130 785 790 795 800
 131 Tyr Ala Leu Asp Ser Ser Arg His Asp Asp Ser Ile Cys Arg Ser Asp
 132 805 810 815
 133 Asn Phe Ser Ile Gly Asn Leu Thr Val Leu Ser Pro Tyr Ile Asn Thr
 134 820 825 830
 135 Thr Val Leu Pro Gly Ser Ser Ser Pro Arg Pro Thr Met Asp Gly Ser
 136 835 840 845
 137 Arg Pro Glu Lys Asp Arg Glu Arg Thr Ala Gly Leu Gly Asn Tyr His
 138 850 855 860
 139 Ser Thr Thr Glu Ser Ser Gly Asn Ser Ser Lys Arg Ile Gly Ile Gln
 140 865 870 875 880
 141 Leu Ser Thr Thr Ala Gln Ile Ser Lys Val Met Asp Glu Val Ser Asn
 142 885 890 895
 143 Ile His Leu Val Gln Glu Asn Arg Ser Ser Gly Ser Ala Ser Glu Met
 144 900 905 910
 145 His Cys Met Ser Asp Glu Arg Asn Ser Gln Arg Lys Pro Ser Ser Asn
 146 915 920 925
 147 His Pro Gln Ser Asn Pro Phe Thr Phe Thr Lys Ala Glu Ser Ser Thr
 148 930 935 940
 149 Arg Gly Cys Pro Val Ala Phe Met Lys Met Glu Tyr Lys Met Ala Ser
 150 945 950 955 960
 151 Asn Asp Ser Leu Asn Ser Val Ser Ser Thr Glu Gly Tyr Gly Lys Arg

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152           965           970           975
153 Gly Gln Val Lys Pro Ser Val Glu Ser Tyr Ser Glu Asp Asp Glu Ser
154           980           985           990
155 Lys Phe Phe Ser Tyr Gly Gln Tyr Pro Ala Gly Leu Ala His Lys Ile
156           995          1000          1005
157 Gln Ser Ala Asn His Met Asp Asp Asn Asp Thr Glu Leu Asp Thr Pro
158          1010          1015          1020
159 Ile Asn Tyr Ser Leu Lys Tyr Ser Asp Glu Gln Leu Asn Ser Gly Arg
160 1025          1030          1035          1040
161 Gln Ser Pro Thr Gln Asn Glu Arg Trp Ser Arg Pro Lys His Ile Ile
162          1045          1050          1055
163 Asp Ser Glu Met Lys Gln Ser Glu Gln Arg Gln Pro Arg Thr Thr Lys
164          1060          1065          1070
165 Thr Thr Tyr Ser Ser Tyr Thr Glu Asn Lys Glu Glu Lys His Lys Lys
166          1075          1080          1085
167 Phe Pro Pro His Phe Asn Gln Ser Glu Asn Val Pro Ala Tyr Thr Arg
168          1090          1095          1100
169 Ser Arg Gly Ala Asn Asn Gln Val Asp Gln Ser Arg Val Ser Ser Asn
170 1105          1110          1115          1120
171 Leu Ser Asn Asn Ser Lys Ala Ser Lys Pro His Cys Gln Val Asp Asp
172          1125          1130          1135
173 Tyr Asp Asp Asp Lys Thr Thr Asn Phe Ser Glu Arg Tyr Ser Glu Glu
174          1140          1145          1150
175 Glu Gln Gln Glu Asp Glu Thr Glu Arg Gln Asn Lys Tyr Asn Ile Lys
176          1155          1160          1165
177 Ala Tyr Ala Ser Glu Glu His His Gly Glu Gln Pro Ile Asp Tyr Ser
178          1170          1175          1180
179 Arg Lys Tyr Ser Thr Asp Val Pro Ser Ser Ala Gln Lys Pro Ser Phe
180 1185          1190          1195          1200
181 Pro Tyr Ser Asn Asn Ser Ser Lys Gln Lys Pro Lys Lys Glu Gln Val
182          1205          1210          1215
183 Ser Ser Asn Ser Asn Thr Pro Thr Pro Ser Pro Asn Ser Asn Arg Gln
184          1220          1225          1230
185 Asn Gln Leu His Pro Asn Ser Ala Gln Ser Arg Pro Gly Leu Asn Arg
186          1235          1240          1245
187 Pro Lys Gln Ile Pro Asn Lys Pro Pro Ser Ile Asn Gln Glu Thr Ile
188          1250          1255          1260
189 Gln Thr Tyr Cys Val Glu Asp Thr Pro Ile Cys Phe Ser Arg Gly Ser
190 1265          1270          1275          1280
191 Ser Leu Ser Ser Leu Ser Ser Ala Glu Asp Glu Ile Glu Gly Arg Glu
192          1285          1290          1295
193 Arg Asn Ser Arg Gly Gln Glu Ser Asn Asn Thr Leu Gln Ile Thr Glu
194          1300          1305          1310
195 Pro Lys Glu Ile Ser Ala Val Ser Lys Asp Gly Ala Val Asn Glu Thr
196          1315          1320          1325
197 Arg Ser Ser Val His His Thr Arg Thr Lys Asn Asn Arg Leu Gln Thr
198          1330          1335          1340
199 Ser Asn Ile Ser Pro Ser Asp Ser Ser Arg His Lys Ser Val Glu Phe
200 1345          1350          1355          1360

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201 Ser Ser Gly Ala Lys Ser Pro Ser Lys Ser Gly Ala Gln Thr Pro Lys
 202 1365 1370 1375
 203 Ser Pro Pro Glu His Tyr Val Gln Glu Thr Pro Leu Met Phe Ser Arg
 204 1380 1385 1390
 205 Cys Thr Ser Gly Ser Ser Leu Asp Ser Phe Glu Ser His Ser Ile Ala
 206 1395 1400 1405
 207 Ser Ser Ile Ala Ser Ser Val Ala Ser Glu His Met Ile Ser Gly Ile
 208 1410 1415 1420
 209 Ile Ser Pro Ser Asp Leu Pro Asp Ser Pro Gly Gln Thr Met Pro Pro
 210 1425 1430 1435 1440
 211 Ser Arg Ser Lys Thr Pro Pro Pro Gln Thr Val Gln Ala Lys Lys
 212 1445 1450 1455
 213 Asp Gly Ser Lys Pro Ile Val Pro Asp Glu Glu Arg Gly Lys Val Ala
 214 1460 1465 1470
 215 Lys Thr Ala Val His Ser Ala Ile Gln Arg Val Gln Val Leu Gln Glu
 216 1475 1480 1485
 217 Ala Asp Thr Leu Leu His Phe Ala Thr Glu Ser Thr Pro Asp Gly Phe
 218 1490 1495 1500
 219 Ser Cys Ala Ser Ser Leu Ser Ala Leu Ser Leu Asp Glu Pro Tyr Ile
 220 1505 1510 1515 1520
 221 Gln Lys Asp Val Gln Leu Lys Ile Met Pro Pro Val Leu Glu Asn Asp
 222 1525 1530 1535
 223 Gln Gly Asn Lys Ala Glu Pro Glu Lys Glu Phe Ile Asp Asn Lys Ala
 224 1540 1545 1550
 225 Lys Lys Glu Asp Lys Arg Ser Glu Gln Glu Lys Asp Met Leu Asp Asp
 226 1555 1560 1565
 227 Thr Asp Asp Asp Ile Asp Ile Leu Glu Glu Cys Ile Ile Ser Ala Met
 228 1570 1575 1580
 229 Pro Arg Lys Pro Ser Arg Lys Asn Lys Val Pro Gln Pro Thr Pro
 230 1585 1590 1595 1600
 231 Gly Lys Pro Pro Pro Val Ala Arg Lys Pro Ser Gln Leu Pro Val
 232 1605 1610 1615
 233 Tyr Lys Leu Leu Ser Ser Gln Asn Arg Leu Gln Thr Gln Lys His Val
 234 1620 1625 1630
 235 Asn Phe Thr His Ser Asp Asp Met Pro Arg Val Tyr Cys Val Glu Gly
 236 1635 1640 1645
 237 Thr Pro Ile Asn Phe Ser Thr Ala Thr Ser Leu Ser Asp Leu Thr Ile
 238 1650 1655 1660
 239 Glu Ser Pro Pro Ser Glu Pro Thr Asn Asp Gln Pro Asn Thr Asp Ser
 240 1665 1670 1675 1680
 241 Leu Ser Thr Asp Leu Glu Lys Arg Asp Thr Ile Pro Thr Glu Gly Arg
 242 1685 1690 1695
 243 Ser Thr Asp Asp Thr Asp Ala Ser Lys Pro Leu Asn Pro Thr Thr Val
 244 1700 1705 1710
 245 Leu Asp Glu Asp Lys Ala Glu Glu Gly Asp Ile Leu Ala Glu Cys Ile
 246 1715 1720 1725
 247 His Ser Ala Met Pro Lys Gly Lys Ser His Lys Pro Tyr Arg Val Lys
 248 1730 1735 1740
 249 Lys Ile Met Asp Gln Ile Asn His Thr Ser Ala Ala Thr Ser Ser Gly

VERIFICATION SUMMARY

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Input Set : A:\082368-002400US.TXT

Output Set: N:\CRF4\03082005\J525621.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date